Reproductive Toxicology

Volume 5, Number 1

1991

CONTENTS

Editorial

A.R. Scialli 1 Congratulations to Us

Reproductive Toxicology Review

N.A. Brown 3 Reproductive and Developmental Toxicity of Styrene

Original Contributions

- G.K. Lemasters 31 Fertility of Workers Chronically Exposed to Chemically
 H. Zenick Contaminated Sewer Wastes
 - V. Hertzberg K. Hansen S. Clark

M. Wide

- G.R. Klinefelter

 L.E. Gray, Jr.

 J.D. Suarez

 The Method of Sperm Collection Significantly Influences Sperm Motion Parameters following Ethane Dimethanesulphonate

 Administration in the Rat
 - M. Piasek 45 Reversibility of the Effects of Lead on the Reproductive K. Kostial Performance of Female Rats
 - B.O. Nilsson 53 Particle-Induced X-ray Emission (PIXE) for Detection of Lead in Mouse Blastocysts

 T. Sunde
 - G. Laschinski
 R. Vogel
 Stem Cells: A New Approach to in Vitro Teratogenesis Screening
 H. Spielmann
 - J. Williams 65 Vaginal Cyclicity, Sexual Receptivity, and Eating Behavior of the L. Uphouse Female Rat following Treatment with Chlordecone
 - E.F. Pydyn 73 Effect of Cyclophosphamide on Mouse Oocyte in Vitro Fertilization K.M. Ataya and Cleavage: Recovery
 - M. Levy 79 Fetal Outcome following Intrauterine Amantadine Exposure
 A. Pastuszak
 G. Koren

Short Communication

E. Robert 83 Ovulation Induction and Neural Tube Defects: A Registry Study
E. Pradat
B. Laumon

Book Reviews

A. Lione 85 Handbook of Ayurvedic Medicinal Plants by L.D. Kapoor

A. R. Scialli 85 In Vitro Methods in Developmental Toxicology: Use in Refining Mechanisms and Risk Parameters by G.L. Kimmel and D.M. Kochhar

Volume 5, Number 2

T.W. Turner

K.B. Basham

K.B. Basham

1991

CONTENTS

Editorial

- J.L. Benkendorf 87 Prenatal Substance Abuse: A Ubiquitous Cry for Help

 Reproductive Toxicology Reviews
 - J.W. Scanlon 89 The Neuroteratology of Cocaine: Background, Theory, and Clinical Implications
- M.A. Plessinger 99 The Cardiovascular Effects of Cocaine Use in Pregnancy J.R. Woods, Jr.

Original Contributions

- D.P. Evenson
 L.K. Jost
 R.K. Baer

 115 Individuality of DNA Denaturation Patterns in Human Sperm as
 Measured by the Sperm Chromatin Structure Assay
- S.M. Schrader

 C.L. Hughes, Jr. 127 Acute and Subacute Effects of Naturally Occurring Estrogens on

 R.S. Kaldas Luteinizing Hormone Secretion in the Ovariectomized Rat: Part 1
- R.S. Kaldas

 A.S. Weisinger

 C.E. McCants

 Luteinizing Hormone Secretion in the Ovariectomized Rat: Part 1
- C.L. Hughes, Jr. 133
 M.M. Chakinala
 S.G. Reece
 133 Acute and Subacute Effects of Naturally Occurring Estrogens on Luteinizing Hormone Secretion in the Ovariectomized Rat: Part 2
- R.N. Miller D.W. Schomberg, Jr.
 - E.M. Martinez 139 Effects of Methoxychlor on the Reproductive System of the Adult Female Mouse; 1: Gross and Histologic Observations
 - R. Santti 149 Androgen Metabolism in Control and Neonatally Estrogenized Male R.R. Newbold Mice J.A. McLachlan
 - D.E. Leonhardt
 L.W. Coleman
 W.S. Bradshaw

 157 Perinatal Toxicity of Ethylene Glycol Dimethyl Ether in the Rat

Book Reviews

A.R. Scialli

V International Congress of Toxicology, Basic Science in
Toxicology, edited by G.M. Volans, F.M. Sullivan, and P. Turner,
and Maternal-Fetal Toxicology, A Clinicians' Guide edited by G.
Koren

167 Announcement

Volume 5, Number 3

1991

CONTENTS

Editorial

- W. Pease 169 When Scientists Become Policy Makers: Shaping Hazard Identification under Proposition 65
- D.R. Mattison 175 In Reply

Reproductive Toxicology Review

S. Kaneko 179 Antiepileptic Drug Therapy and Reproductive Consequences: Functional and Morphologic Effects

Original Contributions

- B. Varga 199 Toxic Effects of Cadmium on LHRH-Induced LH Release and Ovulation in Rats
- E. Ernst 205 Ultrastructural Demonstration of Mercury in Sertoli and Leydig
 B. Møller-Madsen
 G. Danscher Chloride Treatment
 - U.S. Singh
 D.K. Saxena
 C. Singh
 R.C. Murthy
 S.V. Chandra

Proceedings of the Meeting on in Vitro Culture of Postimplantation Rodent Embryos, Louvain-la-Neuve, Belgium, 3 to 6 April 1990

J. J. Picard, Guest Editor

- J.J. Picard 221 In Vitro Culture of Postimplantation Rodent Embryos
- D.L. Cockroft 223 Culture Media for Postimplantation Embryos
- S.K.L. Ellington 229 Use of Embryo Culture to Study Normal Development and Developmental Mechanisms
 - S. Klug 237 Whole Embryo Culture: Interpretation of Abnormal Development in Vitro

N.A. Brown D.O. Clarke A. McCarthy	245	Adaptation of Postimplantation Embryos to Culture: Membrane Lipid Synthesis and Response to Valproate
R.J. Kavlock L.A. Oglesby L.L. Hall H.L. Fisher F. Copeland T. Logsdon M. Ebron–McCoy	255	In Vivo and in Vitro Structure-Dosimetry-Activity Relationships of Substituted Phenols in Developmental Toxicity Assays
M.R. Juchau C. Harris K.L. Stark Q.P. Lee H-Y.L. Yang M.J. Namkung A.G. Fantel	259	Cytochrome P450-Dependent Bioactivation of Prodysmorphogens in Cultured Conceptuses
	265	Abstracts
		Book Reviews
A. Lione	273	Cocaine, Marijuana, Designer Drugs: Chemistry, Pharmacology and Behavior edited by K. K. Redda, C. A. Walker, and G. Barnett
D.L. Davis	274	The Recurring Silent Spring by H. Patricia Hynes
	277	Announcement

Volume 5, Number 4

1991

CONTENTS

Editorial

A.R. Scialli 279 Convulsions and Anticonvulsants — How Far Have We Come?

Reproductive Toxicology Reviews

R.H. Finnell

L.V. Dansky

Parental Epilepsy, Anticonvulsant Drugs, and Reproductive
Outcome: Epidemiologic and Experimental Findings Spanning
Three Decades; 1: Animal Studies

L.V. Dansky
 R.H. Finnell
 Parental Epilepsy, Anticonvulsant Drugs, and Reproductive
 Outcome: Epidemiologic and Experimental Findings Spanning
 Three Decades; 2: Human Studies

Original Contributions

		Original Contributions			
L.D. Wise D.H. Minsker M.A. Cukierski R.L. Clark S. Prahalada J.M. Antonello J.S. MacDonald R.T. Robertson	337	Reversible Decreases of Fertility in Male Sprague–Dawley Rats Treated Orally with Finasteride, a 5α -Reductase Inhibitor			
M.A. Cukierski J.L. Sina S. Prahalada R.T. Robertson	347	Effects of Seminal Vesicle and Coagulating Gland Ablation on Fertility in Rats			
M.A. Cukierski J.L. Sina S. Prahalada L.D. Wise J.M. Antonello J.S. MacDonald R.T. Robertson	353	Decreased Fertility in Male Rats Administered the 5α -Reductase Inhibitor, Finasteride, Is Due to Deficits in Copulatory Plug Formation			
K.A. Faber K. Basham C.L. Hughes, Jr.	363	The Effect of Neonatal Exposure to DES and O,P'-DDT on Pituitary Responsiveness to GnRH in Adult Castrated Rats			
N.L. Teaff R.T. Savoy–Moore	371	Human Granulosa-Luteal Cell Response to Vinblastine Exposure in Vitro			
B.J. Smith D.R. Plowchalk I.G. Sipes D.R. Mattison	379	Comparison of Random and Serial Sections in Assessment of Ovarian Toxicity			
J.F. Jarrell A. McMahon R.D. Barr E.V. YoungLai	385	The Agonist (d-leu-6, des-gly-10)-LHRH-Ethylamide Does Not Protect the Fecundity of Rats Exposed to High-Dose Unilateral Ovarian Irradiation			
		Short Communication			
G.G. Nahas	389	The First International Symposium on the Physiopathology of Illicit Drugs, Held in Paris, France, on May 31, 1990			
		Book Reviews			
A.R. Scialli	391	Updating the Classics: Goodman and Gilman's The Pharmacologic Basis of Therapeutics, 8th ed., by A.G. Gilman, T.W. Rall, A.S. Nies, and P. Taylor; Mendelian Inheritance in Man, 9th ed., by V.A. McKusick; and Langman's Medical Embryology, 6th ed., by T.W. Sadler			
	393	Letter to the Editor			

A.R. Scialli

J. Stadler A. Verhoef C. Verseil

CONTENTS

Editorial

395

		Original Contributions
G. Koren T. Sharav A. Pastuszak L.K. Garrettson K. Hill I. Samson M. Rorem A. King J.E. Dolgin	397	A Multicenter, Prospective Study of Fetal Outcome following Accidental Carbon Monoxide Poisoning in Pregnancy
CF. Lau R. Vogel G. Obe H. Spielmann	405	Embryologic and Cytogenetic Effects of Ethanol on Preimplantation Mouse Embryos in Vitro
T. Nanbo	411	Disposition Kinetics in the Rat Fetus
G. Van Maele-Fabry J.J. Picard P. Attenon P. Berthet F. Delhaise M.J.A.P. Govers P.W.J. Peters A.H. Piersma B.P. Schmid	417	Interlaboratory Evaluation of Three Culture Media for Postimplantation Rodent Embryos

Teratology Information-A New Effort

V.P. Eroschenko	427	Ultrastructure of Vagina and Uterus in Young Mice after
		Methoxychlor Exposure

A.W. Rourke V.P. Eroschenko L.J. Washburn	437	Protein Secretions in Mouse Uterus after Methoxychlor or Estradiol Exposure
R.C. Murthy	443	Ultrastructural Observations in Testicular Tissue of

D.K. Saxena	Chromium-Treated Rats
S.K. Gupta	
S.V. Chandra	

V.L. Slott J.D. Suarez	449	Rat Sperm Mo	tility Analysis:	Methodologic	Considerations
S.D. Perreault					

Book Reviews

A.R. Scialli

459 The Proliferation of Reference Books in Developmental Toxicology:

Chemically Induced Birth Defects by J.L. Schardein;

Drugs in Pregnancy and Lactation, 3rd ed., by G.G. Briggs, R.K. Freeman, S. J. Yaffe;

Teratogens, Chemicals Which Cause Birth Defects edited by V.K. Meyers;

Drug Safety in Pregnancy by P.I. Folb and M.N. Graham Dukes;

Drugs and Human Lactation by P.N. Bennett and the WHO Working Group

462 Announcement

463 Letter to the Editor

Volume 5, Number 6

1991

CONTENTS

Original Contributions

Diurnal Variation of Folate Concentrations in Mouse Embryo and C. Wegner 465 H. Nau Plasma: The Protective Effect of Folinic Acid on Valproic-Acid-Induced Teratogenicity Is Time Dependent Q.P. Lee 473 cAMP-Dependent Regulation of P450-Catalyzed Dealkylation in H.-Y.L. Yang Rat Conceptal Tissues M.J. Namkung M.R. Juchau The Short-Term Reproductive Toxicity of Cyclophosphamide in the J.F. Jarrell 481 L. Bodo Female Rat E.V. YoungLai R.D. Barr G.J. O'Connell Sources of Variation in the Computer-Assisted Motion Analysis of G.P. Toth 487 J.A. Stober Rat Epididymal Sperm E.L. George E.J. Read M.K. Smith Testicular Effects of the Leydig Cell Toxicant Ethane S.D. Thomson 497 R.G. Lendon Dimethanesulphonate Given to Neonatal Rats I.D. Morris Microdose Vasal Injection of Sodium Fluoride in the Rat N.J. Chinoy 505 M.V. Rao M.V. Narayana E. Neelakanta

D.S. Sheriff	513	Effect of Vanadium on Rat Liver and Testicular Glutathione (GSH) and Lipid Peroxide Levels
J.L. Gubbels W.R. Gold S. Bauserman	517	Prenatal Diagnosis of Fetal Diastematomyelia in a Pregnancy Exposed to Acyclovir
		Book Reviews
C.F. Colie	521	Cardiac Problems in Pregnancy, 2nd ed., by U. Elkayam and N. Gleicher
A.R. Scialli	521	Effective Expert Witnessing. A Handbook for Technical Professionals by J.V. Matson
	525	Letters to the Editor
	529	Thanks to Our Reviewers
	530	Announcements
	1	Volume 5 List of Contents/Author Index/Key Word Index

